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|  | PLTW_M_L_4CP |

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| **Activity 1.3.4 Measurement Lab - Skimmer Grading Rubric** |

| Elements | Weight | 10 Points | 8 Points | 6 Points | 4 Points | 2-0 Points | Total |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Measurement |  | Main body panel, fins, and air scoop are measured accurately. | One measurement is incorrect. | Two - three measurements are incorrect. | Four - five measurements are incorrect. | More than five measurements are incorrect. |  |
| Cutting |  | Main body panel, fins, and air scoop are cut neatly and accurately. | One skimmer component has not been cut neatly and accurately. | Two skimmer components have not been cut neatly and accurately. | Three or more components have not been cut neatly and accurately. | Sloppy cutting has significantly interfered with the skimmer performance. |  |
| Assembly |  | Fully assembled:   * Air scoop facing the correct direction. * Air scoop edges are flush with the main body panel. * Air scoop allows air to pass between itself and main body panel. * Fins are attached to the outside flaps of the main body panel. * The angles of the fins are facing the front of the main body panel. * The rear flap of the main body panel is reattached to the main body panel. * The rear flap of the main body panel is attached at the correct angle. | Fully assembled, but one or two features not assembled correctly. | Fully assembled, but three or four features not assembled correctly. | Fully assembled, but more than four features not assembled correctly. | Partially assembled or not assembled. |  |
| Workmanship |  | Smooth taping and/or gluing. Folding on the lines, crisp, and at 90 degree angles. | Adequate taping, gluing, and folding. | Taping or gluing not smooth, or folds not crisp. | Taping, gluing, and folding needs improvement. | Sloppy taping, gluing, and folding. |  |
| Performance |  | Hits the wall | Hits the wall | Hits the wall | 10’ – 19.9’ | Less than 10’ |  |